



Savage Surveying, Inc.

SW318
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APR 12 2010 39426
UTAH DIVISION OF
SOLID & HAZARDOUS WASTE
2010.01367

April 6, 2010

Division of Solid and Hazardous Waste
P.O. Box 144880
Salt Lake City, UT 84114-4880

ATT: Dennis R. Downs

Dear Mr. Downs

Herewith please find a revised copy of the David Madsen Class Ivb Landfill Permit Application.

Comment: 1.3 Area Served by Facility;
This has been changed to the wording you requested.

Comment: 2.5 Groundwater; Site Photographs Photo number 6.
This photo has been replaced with the same one with the wording "Off Property Settlement Pond For Adjacent Dairy".

Comment: 5.0 Financial Assurance Plan, Table 1, Summary of Estimated Closure and Post Closure Costs.
This has been revised.

Comment: Appendix E, Endangered Species and Cultural Resources Report.
The EIS Survey Team report was not signed. Both team members, Mel Coonrod, Senior Biologist and Michael Coonrod, Field Technician, must sign the report.
Their signatures have been added.

Comment: Solid Waste Permit Filing Fees:
The fee for a new non-commercial solid waste facility is: \$750.00. This was not included with your permit application.
Please find a \$750.00 check for the Solid Waste Permit Filing Fees.

Please let me know if you need any additional data.

Thanks

Savage Surveying, Inc.

Ryan W. Savage
Ryan W. Savage

cc: David Madsen
0907-016S

RECEIPT

Date 4-12 2010 103923

Received From Savage Surveying 2010.01367

Address Nadsen Class IVb Landfill Dollars (\$ 750⁰⁰)

For SW Permit Application Fee

ACCOUNT		HOW PAID		UNIT	ACCT.	PROGRAM	FUNCTION
AMT. OF ACCOUNT		CASH		6500	2316		
AMT. PAID		CHECK	#11233	By <u>Christy</u>			
BALANCE DUE		MONEY ORDER					

**CLASS IVb
SOLID WASTE LANDFILL
PERMIT APPLICATION**

for

**DAVID MADSEN
Madsen Landfill**

February 2010

Prepared by:

**Terry L. Monroe, P.E.
for**

**Savage Surveying, Inc.
1925 South Industrial Park Road
Richfield, Utah 84701**

TABLE OF CONTENTS

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APR 12 2010

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SOLID & HAZARDOUS WASTE

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Section I

Permit Application

Section II

1.0	Facility General Information	1
1.1	General Description of the Facility Site	1
1.2	Legal Description and Proof of Ownership	2
1.3	Area Served by Facility	2
1.4	Type of Facility and Waste	2
1.5	Construction Schedule	2
2.0	Land Use Compatibility	3
2.1	Geology	3
2.2	Surface Water	3
2.3	Floodplains	3
2.4	Wetlands	4
2.5	Groundwater	4
2.6	Airports	4
3.0	Plan of Operation	4
3.1	Class IVb Landfill	5
3.2	Waste Handling Procedures	5
3.3	Litter Control	5
3.4	Recycling Program	5
3.5	Alternative Waste Handling and Disposal Plan	5
3.6	Landfill Inspection and Monitoring Schedule	6
3.7	Equipment	6
3.8	Procedure for Controlling Disease Vectors	6
3.9	Training and Safety Plan for Site Operation	6
3.10	Emergency Plans	6
3.11	Record Keeping	7
3.12	Reporting	8
4.0	Engineering Report	8
4.1	Location Standards	8
4.2	Geology	9
4.3	Seismic	9
4.4	Surface Water	10
4.5	Groundwater	10
4.6	Wetlands, Cultural Resources and Endangered Species	10
4.7	Solid Waste Management Plan	11
4.8	Cell Design and Development	11
4.9	Run-on and Run-off Control	11
4.10	Closure and Post-Closure Design and Maintenance	11
4.11	Volume Capacity	12
4.12	Final Inspection	12
4.13	Recording	12
4.14	Post-Closure Monitoring	12
4.15	Post-Closure Maintenance	12
4.16	Notice of Intent	12
5.0	Financial Assurance Plan	13

List of Tables

Table 1	Page 13
---------------	---------

Appendix

Warranty Deed	Appendix A
Flood Plain and Inundation Maps	Appendix B
Water Rights and Wells	Appendix C
Record Keeping Forms	Appendix D
Endangered Species and Cultural Resources Report	Appendix E
Maps, Cell and Cover Design	Appendix F
Letter of Credit	Appendix G
Adjacent Landowners and Notice of Intent	Appendix H

Section 1

Permit Application

Utah Class IV and VI Landfill Permit Application Form

Part I General Information APPLICANT: PLEASE COMPLETE ALL SECTIONS.

I. Landfill Type	<input type="checkbox"/> Class IVa <input type="checkbox"/> Class VI	<input checked="" type="checkbox"/> Class IVb	II. Application Type	<input checked="" type="checkbox"/> New Application <input type="checkbox"/> Renewal Application	<input type="checkbox"/> Facility Expansion <input type="checkbox"/> Modification
-------------------------	---	---	-----------------------------	---	--

For Renewal Applications, Facility Expansion Applications and Modifications Enter Current Permit Number _____

III. Facility Name and Location

Legal Name of Facility Madsen Class IVb Landfill					
Site Address (street or directions to site) 0.5 mile East of Gunnison				County Sanpete	
City		State	UT	Zip Code	Telephone
				NA	
Township	19 S	Range	1 E	Section(s)	21
				Quarter/Quarter Section	SW
				Quarter Section	SE
Main Gate Latitude	degrees	39	minutes	8	seconds
				17	
Longitude	degrees	111	minutes	48	seconds
				17	

IV. Facility Owner(s) Information

Legal Name of Facility Owner David Madsen Construction					
Address (mailing) PO Box 457					
City		Mayfield	State	UT	Zip Code
				84643	Telephone
				435 528-3661	

V. Facility Operator(s) Information

Legal Name of Facility Operator David Madsen Construction					
Address (mailing) PO Box 457					
City		Mayfield	State	UT	Zip Code
				84643	Telephone
				435 528-3661	

VI. Property Owner(s) Information

Legal Name of Property Owner David Madsen Construction					
Address (mailing) PO Box 457					
City		Mayfield	State	UT	Zip Code
				84643	Telephone
				435 528-3661	

VII. Contact Information

Owner Contact			David Madsen			Title			Owner		
Address (mailing) PO Box 457											
City			Mayfield			State			UT		
						Zip Code			84643		
						Telephone			435 528-3661		
Email Address						Alternative Telephone (cell or other)					
Operator Contact			David Madsen			Title			Owner		
Address (mailing) PO Box 457											
City			Mayfield			State			UT		
						Zip Code			84643		
						Telephone			435 528-3661		
Email Address						Alternative Telephone (cell or other)					
Property Owner Contact			David Madsen			Title			Owner		
Address (mailing) PO Box 457											
City			Mayfield			State			UT		
						Zip Code			84643		
						Telephone			435 528-3661		
Email Address						Alternative Telephone (cell or other)					

Utah Class IV and VI Landfill Permit Application Form

Part I General Information (Continued)

VIII. Waste Types (check all that apply)

☒ Landfill will accept all wastes allowed in Class IV or VI landfills **Or**
landfill will accept only the following wastes

Waste Type	Combined Disposal Unit	Monofill Unit
<input type="checkbox"/> Construction & Demolition	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Tires	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Yard Waste	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Animals	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Contaminated Soil	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other	<input type="checkbox"/>	<input type="checkbox"/>

Note: Disposal of dead animals must be approved by the Executive Secretary

IX. Facility Area

Facility Area..... 5 acres

Disposal Area	5	acres
---------------	---	-------

Design Capacity

Years..... 20

Cubic Yards..... 89750

Tons..... 44875

X. Fee and Application Documents

Indicate Documents Attached To This Application

☒ Application Fee: Amount \$700.00

Class VI Special Requirements

☒ Facility Map or Maps☒ Facility Legal Description☒ Plan of Operation☒ Waste Description

☐ Documents required by UCA 19-6-108(9) and (10)

☐ Ground Water Report

☒ Closure Design

☒ Cost Estimates☒ Financial Assurance

I HEREBY CERTIFY THAT THIS INFORMATION AND ALL ATTACHED PAGES ARE CORRECT AND COMPLETE.

Signature of Authorized Owner Representative

Title

Date _____

President

2/9/10

Address

PO Box 457, Mayfield, UT 84643

Name typed or printed

Signature of Authorized Land Owner Representative (if applicable)

Title

Date _____

President

2/9/10

Address

PO Box 457, Mayfield, VT 84643

Name typed or printed

Signature of Authorized Operator Representative (if applicable)

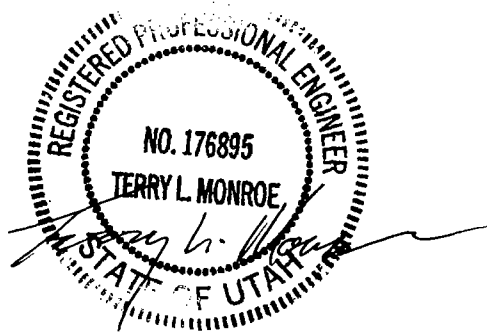
Title

Date _____

Address

Name typed or printed

Section II



1.0 Facility General Information

David Madsen desires to construct and operate a Class IVb Landfill on property he owns approximately 1 mile SE of Gunnison, Utah. This facility will be a privately operated landfill that will, on average, receive less than 20 tons of waste per day. The waste will be composed of construction or demolition debris, yard waste or other inert waste. This application is to apply for the facility's operating permit.

1.1 General Description of Facility Site

The Madsen landfill site is approximately 5 acres in size and is located approximately 1 mile SE of Gunnison, Utah in the Sevier River – Sanpitch River valley area commonly referred to as the Gunnison Valley. The Gunnison Valley is a Y shaped area with its northwest leg extending down the Sevier River Valley and its Northeast leg extending up the Sanpitch River. The Gunnison Valley is located in a semi arid area of Utah. The average annual precipitation at Gunnison, Utah is 9.18 inches. The area the landfill is in is a broad flat valley bounded on the West by the Valley Mountains and on the East by the Wasatch Plateau. The landfill site is in an area that is generally flat with slight slope to the west and north. The landfill site is an area that has been disturbed by previous gravel operations. It is now un-level and marked by stored top soil and overburden piles on the extreme west and East end, a five foot earthen berm around the excavated area and an excavated pit area approximately 15 to 20 feet deep making up the remainder of the site. The Sanpitch River flows through the area from east to west approximately ½ mile north of the site. The site is bounded on the north and east by a large existing dairy operation and on the east and south by an active sand and gravel operation. To the north and west the site is bounded by farm ground. The sites soils are derived from alluvium and alluvial fans composed of poorly to well sorted clay, silt, sand, gravel and boulders. The upper most aquifer that underlies the site occurs in the unconsolidated alluvium under unconfined water table conditions. Depth to the groundwater under the proposed Class IV site is approximately 40 feet below natural ground surface.

The land use of the site and adjacent properties are designated Agricultural (A) by Sanpete County. Sanpete County is the local government entity that has jurisdiction over the facility site.

The site is presently secured with a barbed wire fence on the north and east side, a five foot earthen berm surrounding the entire site and a lockable cable gate securing the access road.

There is a graveled county road from State Road 137 to the landfill site. There are gravel roads within the landfill site to provide access to the various areas.

1.2 Legal Description and proof of ownership

The Madsen landfill site occupies approximately 5.3 acres of land located within the S1/2SE1/4 Section 21, T19S, R1E, SLB&M more fully described as: Beginning 15.20 chains North and 10.00 chains East from the Southwest Corner of the Southeast Quarter of Section 21, T19S, R1E, SLB&M, thence North 5.20 chains; thence East 10.20 chains; thence South 5.20 chains; thence West 10.20 chains to the point of beginning. A copy of the most current deed recorded with the Sanpete County Recorder showing ownership vested in David Madsen is attached as Appendix A.

1.3 Area Served by Facility

The Madsen Class IVb Landfill will be a non-commercial privately owned and operated facility. The Landfill will only receive construction and demolition waste generated by Madsen Construction Company and its sub-contractors at sites where Madsen Construction Company is general contractor.

1.4 Type of facility and waste

The Madsen Class IVb Landfill will be a non-commercial privately owned and operated facility that will receive waste from Madsen Construction Company and its sub-contractors doing business in the south Sanpete County area.

A Class IVb Landfill is permitted by the Solid and Hazardous Waste Board to receive for disposal the following:

- a. Construction/demolition waste;
- b. yard waste;
- c. inert waste
- d. dead animals, as approved by the Executive Secretary and upon meeting the requirements of Section R315-315-6 of the Utah Solid Waste Rules;
- e. waste tires and materials derived from waste tires, upon meeting the requirements of Section 19-6-804 and Section R315-320-3; or
- f. petroleum contaminated soils, upon meeting the requirements of Subsection R315-315-8(3)

1.5 Construction Schedule

The excavated pit which will serve as the waste "cell" is existing. No additional excavation will be required in constructing the landfill cell. It is anticipated that operations to receive waste will begin as soon as permitted.

2.0 Land Use Compatibility

The landfill site is located in an agricultural area of Sanpete County with a land use designation of A (Agricultural). There is a dairy barn, associated outbuildings and waste lagoon approximately 660 feet north and east of the NE corner of the site. These are the only structures within 2500 feet of the site. To the east and south of the site are two extensive ongoing sand and gravel operations. Due to the location of the site being in a historic and active sand and gravel mining area, dairy barn area and farm area there is not anticipated to be any problems with complaints of odor or aesthetics of the landfill.

2.1 Geology

The Gunnison valley area extends from the south end of the Redmond Hills to Gunnison where the basin branches to the north and northeast. The Sevier River flows through the main segment to the north. No geologic constriction divides this basin, but Young and Carpenter (1965, p. 18) defined the northern boundary as the farthest north outcrop of the Arapien Shale. The northeast segment extends about 7 miles up the San Pitch River from Gunnison to Gunnison Reservoir. Near the Gunnison Reservoir, the segment becomes constricted by the consolidated rocks in the Gunnison and Wasatch Plateaus. Young and Carpenter (1965, p.18) reported that the alluvial deposits range in thickness from about 50 feet along the San Pitch River to 320 feet west of Gunnison. The soil profile at the site shows a top soil layer of Wales silty clay loam approximately 4 feet thick. The remainder of the exposed profile is soils derived from alluvium and alluvial fans composed of inter bedded layers of poorly to well sorted clay, silt, sand, gravel and cobbles.

2.2 Surface Water

There are no perennial streams adjacent to the site. The Sanpitch River is located approximately 2300 feet north of the site flowing from the east to the west to its confluence with the Sevier River. The Sevier River is located approximately 4 miles west of the site. Drainage structures to control the run-on of the 25 year/24 hour precipitation event has been constructed as part of the historic sand and gravel operation and consists of a five foot berm to divert any water around the perimeter of the site. Utilizing the Point Precipitation Frequency Estimates from NOAA Atlas 14, the 25 year/24 hour precipitation is estimated to be 1.66 inches. WinTR55 – Small Watershed Hydrology program was used to model the hydrology of the site. The earthen berm directing potential rainfall runoff around the site is oversized to pass this event.

2.3 Floodplains

Calculation of the 25 year and 100 year flood event in the Sanpitch River north of the site was preformed utilizing the USGS Stream Stats program. The

calculated flow for the 25 year event is 2750 cfs and for the 100 year event is 3740 cfs. The Federal Emergency Management Agency mapped the flood plain for the 100 year event. The landfill site is approximately 15 feet above the 100 year flood high water line at approximate elevation 5110 feet above MSL north of the site.

The landfill site is located downstream from Gunnison Reservoir, Palisades Reservoir, Nine Mile Reservoir and Dairy Canyon Reservoir. The Utah Division of Water Rights, Dam Safety Section has prepared inundation maps showing both sunny day failure inundation areas and rainy day failure inundation areas. The landfill site is approximately 12 feet above the calculated rainy day failure flood line of all reservoirs. This information and maps are located attached in Appendix B.

2.4 Wetlands

There are no wetlands located in the vicinity of the site. The landfill will not affect any wetland area or any wildlife associated with wetlands.

2.5 Groundwater

Groundwater at the site has been encountered at a depth of 40 feet below the natural ground surface at elevation of 5085.4 feet above MSL. A large excavator was used to excavate a test hole in the bottom of the gravel pit to determine the static groundwater level. The elevation of the gravel pit bottom ranges from approximately 5100 feet above MSL to 5108 feet above MSL, giving a minimum separation from the historic high groundwater elevation of 15 feet.

Search of the Division of Water Rights records shows that there are three wells located within 2500 feet of the landfill site. The closest well is a stockwater well located approximately 300 feet south of the site. The water rights information is included in Appendix C.

2.6 Airports

The closest airport to the proposed site is the Salina Airport. The Salina Airport is located 7.5 miles south of the Madsen Landfill site.

3.0 Plan of Operation

The purpose of the plan of operation is to give a narrative of the routine operation of the Madsen Landfill. The intent of the Plan of Operation is to provide an accurate description of the routine operations and procedures while allowing for modification which may be required to compensate for operational changes.

3.1 Class IVb Landfill

The landfill site is located in a mined out and closed sand and gravel pit. Prior to the removal of the sand and gravel, the topsoil was stripped from the area and stockpiled on site. The landfill operation will be to place the waste into the previously excavated pit starting from the southwest corner of the site and proceeding in a northeasterly direction, filling the pit to an elevation of approximately 2 feet of natural ground surface. As the waste progressively fills the pit area, a minimum of 6 inches of cover will be placed. This cover material will be obtained from the prior stockpiled material or from a nearby barrow pit. The final closure cover will consist of 2 feet of cover including a minimum of 6 inches of top soil that will be reseeded. If additional cover material is needed it will be obtained from a nearby gravel pit owned by Dave Madsen.

3.2 Waste Handling Procedures

As owner, Dave Madsen will have supervisory responsibility over the landfill. Operation of the landfill will be under his direction. The owner will limit the waste received to the type of waste permitted. No prohibited hazardous or PCB containing waste will be allowed on site.

At the beginning of each working day, the supervisor will inform his operators where to direct waste for disposal. The construction and demolition waste will be disposed of in a manner that limits the size of the open face allowing for orderly filling of the pit. The landfill will be attended by an operator or supervisor at all times the landfill is open. Water will be applied to the roads and cover material as required to control fugitive dust.

3.3 Litter Control

The prevailing winds at the landfill site are generally from the south - southwest. The type of waste accepted at the site has a low amount of litter that can be carried by the wind. Minimizing the open face of the landfill and placing cover over the material as the fill progresses will help control of litter. As needed, employees will pick up any scattered litter at the landfill.

3.4 Recycling Program

At the present time, there are no recycling programs planned for the Madsen Landfill.

3.5 Alternative Waste Handling or Disposal Plan

In the event that disposal of waste is required and the landfill is unable to accept the waste due to emergency or becoming inaccessible, the waste will

be hauled and placed in the Sanpete County Landfill located approximately 5 miles east of the site.

3.6 Landfill Inspection and Monitoring Schedule

The schedule for inspection and monitoring of the landfill facilities to ensure proper operation and maintenance will be as follows:

Inspection/Monitoring Activity	Frequency
Access road condition and maintenance	During operation as needed
Fence inspection and maintenance	Monthly
Drainage channels condition	Monthly
Landfill equipment maintenance	As per manufacturer's specification
Post closure final cover	Monthly

3.7 Equipment

Dave Madsen owns a fleet of equipment including loaders, backhoes, bulldozer and trucks in order to operate and maintain the landfill. Regular service is performed as per the manufacturer's recommended schedule.

3.8 Procedures for Controlling Disease Vectors

Exclusion of specific types of waste from a Class IVb landfill is required to control disease vectors and the subsequent spread of disease. This includes special wastes such as infectious waste and liquid waste. No prohibited waste and no dead animals will be received for disposal at this landfill.

3.9 Training and Safety Plan for Site Operation

Each Employee who works with solid waste at the landfill will be trained and have a working knowledge of basic operational techniques and maintenance necessary to operate and maintain the landfill facility in a manner that protects human health, safety and protects the environmental quality. Training will be accomplished through on the job training and available training videos.

3.10 Emergency Plans

Emergency plans are in place to minimize hazards to human health or the environment from any unplanned sudden or non sudden discharge to the air soil or water. The provisions of this plan shall be carried out immediately when there is an emergency situation or release that could threaten human health or the environment. Emergency evacuation of the site will not be necessary given the nature of the waste materials accepted and processed at

the site. The probability of an explosion, fire or toxic vapor from an emergency situation is very remote.

a. Fire or Explosion

Due to the nature of the waste materials stored and processed at the site, the possibility of a fire or explosion at the site is remote. If a fire or explosion were to occur, the primary means of fire control will be the isolation and exclusion of the hot or burning material. If a fire does occur during operating hours, the burning material will be separated from other material and covered with soil using on site earth moving equipment. If necessary, this action will be supported by additional equipment owned by Dave Madsen.

Small fires may be extinguished with fire extinguishers located in on site vehicles and equipment. If a fire is not controllable with on site equipment the Gunnison Fire Department will be called. This suppression effort will be supported by other fire departments within Sanpete County as needed.

b. Explosive gas

Due to the type of material received, the size and arid nature of the site, explosive landfill gas is not expected to be generated.

3.11 Record Keeping

The following records will be kept on site at the landfill:

1. A daily operating record containing the weights or volumes of waste, the number of vehicles entering the landfill and the types of waste received.
2. Training records of landfill personnel
3. Operations inspection reports
4. Copy of the Class IV Permit
5. Landfill Operations Plan
6. Equipment Maintenance Records
7. Permit Application
8. Financial Assurance Documentation

Copies of suggested recording keeping forms are attached in Appendix D.

3.12 Reporting

An annual report will be submitted to the Executive Secretary by March 1 of each year for the previous year of facility operation. At a minimum, the report will contain:

- Name and address of facility
- Calendar year covered by the report
- Quantity of waste in tons or volume in cubic yards with estimated in place density in pounds per cubic yard
- Annual update of financial assurance mechanism identifying any adjustments which may be necessary
- Training completed by personnel

4.0 Engineering Report

The design and permitting of the Madsen Landfill were based upon the State of Utah Solid Waste Rules. Existing engineering and scientific data were reviewed and incorporated into the design. Site investigations were performed to evaluate the site and surrounding area. Based upon the investigations and available information, this facility will have minimal impact to human health, safety and environmental quality of the surrounding area.

The site is located in an area of ongoing large scale sand and gravel operations and an asphalt batch plant. Up gradient of the site are gravel pits which minimize or prevent any overland surface water from reaching the site. Impact to groundwater will be insignificant or non existent.

The average annual precipitation is less than 10 inches per year. The operation and design of the landfill will provide necessary controls to minimize any long term impacts to the surrounding area. The closure and post-closure designs will minimize impact to the area.

Required maps, cell design and related information are attached as Appendix F.

4.1 Location Standards

The landfill site is located in an agricultural area of Sanpete County with a land use designation of A (Agricultural). There is a dairy barn, associated outbuildings and waste lagoon approximately 660 feet north and east of the NE corner of the site. These are the only structures within 2500 feet of the

site. To the southeast and south of the site are two extensive ongoing sand and gravel operations. Due to the location of the site being in a historic sand and gravel mining area, dairy barn area and farm ground area there is not anticipated to be any problems with complaints of odor or aesthetics of the landfill.

4.2 Geology

The Gunnison valley area extends from the south end of the Redmond Hills to Gunnison where the basin branches to the north and northeast. The Sevier River flows through the main segment to the north. No geologic constriction divides this basin, but Young and Carpenter (1965, p. 18) defined the northern boundary as the farthest north outcrop of the Arapien Shale. The northeast segment extends about 7 miles up the San Pitch River from Gunnison to Gunnison Reservoir. Near the Gunnison Reservoir, the segment becomes constricted by the consolidated rocks in the Gunnison and Wasatch Plateaus. Young and Carpenter (1965, p.18) reported that the alluvial deposits range in thickness from about 50 feet along the San Pitch River to 320 feet west of Gunnison.

The soil profile at the site shows a top soil layer of Wales silty clay loam approximately 4 feet thick. The remainder of the exposed profile is soils derived from alluvium and alluvial fans composed of inter bedded layers of poorly to well sorted clay, silt, sand, gravel and cobbles. A well log of a well located approximately 1100 feet north of the site shows an eight foot thick clay layer underlying the area at a depth from 42 to 50 feet.

4.3 Seismic

The central Sevier Valley is a graben that was formed by the normal faulting of a synclinal trough. The two main faults are the Sevier on the east and the Elsinore on the west (Young and Carpenter, 1965, pl. 1). The Sevier fault extends from east of Piute Reservoir north to Monroe. The Elsinore fault extends from Elsinore to just north of Richfield. Both faults coincide with the basin margins where the basin-fill deposits are in contact with consolidated rock. Additional faulting, volcanism, intrusive activity, and stream erosion have combined to form five basins in the main graben. The basins are alluvial filled with constrictions generally formed by Tertiary volcanic rocks at each end of a basin. Constrictions might be at land surface or in the subsurface.

The Redmond-Gunnison basin extends from the south end of the Redmond Hills to Gunnison where the basin branches to the north and northeast. No geologic constriction divides this basin, but Young and Carpenter (1965) defined the northern boundary as the farthest north outcrop of the Arapien Shale. The northeast segment extends about 7 miles up the San Pitch River from Gunnison to Gunnison Reservoir. Near the Gunnison Reservoir, the

segment becomes constricted by the consolidated rocks in the Gunnison and Wasatch Plateaus. The rules require that the facility may not be located within 200 feet of a Holocene fault. The nearest fault according to Mattox (1992) is located approximately 5000 feet northeast of the site. It is believed to be a minor fault not connected to larger faults.

4.4 Surface Water

There are no perennial streams adjacent to the site. The Sanpitch River is located approximately 2300 feet north of the site flowing from the east to the west to its confluence with the Sevier River. The Sevier River is located approximately 4 miles west of the site. Drainage structures to control the runoff of the 25 year/24 hour precipitation event has been constructed as part of the historic sand and gravel operation and consists of a five foot berm to divert any water around the perimeter of the site. Utilizing the Point Precipitation Frequency Estimates from NOAA Atlas 14, the 25 year/24 hour precipitation is estimated to be 1.66 inches. The earthen berm directing potential rainfall runoff around the site has been sized to pass this event.

4.5 Groundwater

Groundwater at the site has been encountered at a depth of 40 feet below the natural ground surface at elevation of 5085.4 feet above MSL. The elevation of the gravel pit bottom ranges from approximately 5100 feet above MSL to 5108 feet above MSL, giving a minimum separation from the historic high groundwater elevation of 15 feet.

Search of the Division of Water Rights records shows that there are three wells located within 2500 feet of the landfill site. The closest well is a stockwater well located approximately 300 feet south of the site. The water rights information is included in Appendix C.

As a Class IVb landfill, groundwater monitoring is not required.

4.6 Wetlands, Cultural and Endangered Species

A study of the site was conducted by EIS Environmental and Engineering Consulting. There are no wetlands located in the vicinity of the site. The landfill will not affect any wetland area or any wildlife associated with wetlands. No threatened or endangered species were found to exist in the area of or immediately surrounding the site. All of the land is recently disturbed and is currently an active borrow area. No cultural sites were found to be present. A copy of this report is attached as Appendix E.

4.7 Solid Waste Management Plan

It is anticipated that the landfill will continue to receive waste for more than the next 20 years. The volume of waste handled is anticipated to average approximately 9 tons per day for 250 days per year. The capacity of the Madsen Landfill is calculated to be 89750 cubic yards. The total area of the site is approximately 5.0 acres. The waste will be disposed of by filling the excavated gravel pit with waste starting in the southwestern corner and proceeding north and east. As the waste is deposited, it will be covered with a minimum 6 inches of soil. Additional cover and top soil will be added for closure.

4.8 Cell Design and Development

The "cell" that will be utilized is an existing area excavated as part of a sand and gravel operation. The cell varies in depth from 15 feet to 25 feet below ground surface. The waste will be deposited into the cell starting at the southwest corner and then proceeding north and east in direction of fill.

4.9 Run-on and Run-off Control

Control of run-on from the surrounding area and run-off from the landfill will be accomplished utilizing the existing earthen berm that encircles the site and existing surface ditches. The potential for significant run-on water flows at the site are limited. Immediately up gradient from the site are two large gravel pits that preclude run-on water from any where but the area adjacent to the site. The adequacy of the drainage control structures were evaluated using the 25 year/24 hour precipitation event. The precipitation for the 25 year/24 hour event is 1.66 inches. Run-off from the area up gradient from the site was calculated using WinTR55 Small Watershed Hydrology program. The peak flow for the 25 year/24 hour event from the contributing watershed area was calculated to be 3.10 cfs. The existing ditches and earthen berm are adequate.

The final cover of the site will be graded to match the existing ground surface and re-vegetated with perennial grasses.

4.10 Closure and Post Closure Design and Maintenance

The closure and post-closure design, construction and maintenance will be performed to meet the requirements of the State of Utah Solid Waste Rules. The closure of the Madsen Landfill will minimize the need for further maintenance, minimize threats the human health and environment from post closure escape of solid waste constituents.

The closure design and post closure maintenance for this Class IVb site will include final grading of the fill to match the existing ground contours. The

site will then be covered with a minimum of 24 inches of cover which includes a minimum of 6 inches of top soil. The area will then be seeded with perennial grasses and other shallow rooted vegetation.

The final cover will utilize on site soils. If additional material is required it will be obtained from a nearby existing gravel pit owned by David Madsen Construction.

4.11 Volume Capacity

The total volume capacity of the proposed Class IVb was calculated using digital terrain modeling computations. The total volume capacity was calculated to be 89,750 cubic yards or 44875 tons. It is estimated that the density of the waste will be approximately 0.5 ton per cubic yard.

4.12 Final Inspection

A final inspection will be performed at the termination of landfill activities at the Madsen Landfill site. The final inspection will determine if the landfill meets all closure requirements as outlined in the permit and closure plans.

4.13 Recording

Within 60 days of certification of closure, David Madsen will submit a plat and statement of fact concerning the location of the disposal site to the Sevier County Recorder to be recorded as part of the record of title. David Madsen will also submit a copy of the record of title to the Executive Secretary.

4.14 Post Closure Monitoring

Periodic inspections of the site including inspection of the final cover will be performed. Special attention will be given to any settlement areas requiring maintenance.

4.15 Post Closure Maintenance

Post closure maintenance will consist of maintaining the final cover and vegetation. Settlement areas will be filled in, graded and seeded. If the site becomes stabilized, the State may then consider discontinuing post closure activities. See Table # 1 for closure and post closure cost estimates.

4.16 Notice of Intent

Administrative Rule R315-310-3(2)(ii) requires that a notice of intent to apply for a solid waste landfill permit be sent to all property owners within 1000 feet

of a proposed facility. A copy of the letter sent and a copy of the Certified Mail receipts listing the property owners is attached as Appendix H.

5.0 Financial Assurance Plan

David Madsen has obtained an irrevocable letter of credit from Gunnison Valley Bank in an amount of \$60,000.00 which is more than the current cost estimate for closure and post-closure care described in Table # 1. The letter of credit is issued for the period beginning December 7, 2010 and will be automatically extended on a yearly basis. If the letter of credit is not extended by the lending institution, Mr. Madsen will obtain an alternate financial assurance mechanism prior to the expiration of the letter of credit. A copy of the Letter of Credit from Gunnison Valley Bank is attached as Appendix G.

Table # 1

MADSEN LANDFILL CLOSURE AND POST CLOSURE CARE ESTIMATE

TASK/SERVICE	QUANTITY UNITS	Multiplier	UNIT COST	Subtotal
1 Preliminary site work				
Conduct site evaluation	1 Lump Sum	1	\$1,500.00	\$1,500.00
Remove Equipment	1 Lump Sum	1	\$1,000.00	\$1,000.00
Repair/replace fence	2020 linear feet	0.25	\$2.60	\$1,313.00
2 Construction				
Complete site grading	5.3 acres	1	\$850.00	\$4,505.00
Compacted on site cap	4980 cubic yards	1	\$2.45	\$12,201.00
Place on site topsoil	1660 cubic yards	1	\$2.00	\$3,320.00
Establish vegetative cover	5.3 acres	1	\$340.00	\$1,802.00
3 Tasks not identified				
4 subtotal				\$25,641.00
5 Administrative Services	1 Lump sum	0.1	\$2,564.10	
6 Profesional Services	1 Lump sum	0.12	\$3,076.92	
7 Closure contingency	1 Lump sum	0.1	\$2,564.10	
8 Total Final Closure			\$33,846.12	

POST CLOSURE COST ESTIMATE

1 Site Maintenance				
Site Inspection	4 per year	30	\$55.00	\$6,600.00
General Maintenance	1 per year	30	\$100.00	\$3,000.00
2 Final Cover Maintenance				
Maintain vegetative cover	5.3 acres	30	\$20.00	\$3,180.00
repair onsite erosion/settlement	5.3 acres	30	\$30.00	\$4,770.00
Reseed vegetative cover	5.3 acres	0.2	\$340.00	\$360.40
3 task not identified				
4 Subtotal				\$17,910.40
5 Administrative Services	1 lump sum	0.06	\$1,074.62	
6 Professional Services	1 lump sum	0.07	\$1,253.73	
7 Post closure contingency	1 lump sum	0.1	\$1,791.04	
8 Total Post closure			\$22,029.79	
Total Closure and Post Closure Cost Estimate			\$55,875.91	

Appendix A

Warranty Deed

21-19-1E

WARRANTY DEED

[CORPORATE FORM]

YARDLEY DAIRY, INC., a Utah corporation, organized and existing under the laws of the State of Utah, with its principal office at the City of Mayfield, County of Sanpete, State of Utah, as Grantor, hereby CONVEYS AND WARRANTS to **DAVID MADSEN CONSTRUCTION** of P.O. Box 457, Mayfield, Utah 84643, as Grantee, for the sum of Ten (\$10.00) and no/100-----Dollars, the following described tract of land in Sanpete County, State of Utah:

10092X

BEGINNING 15.20 chains North and 10.00 chains East from the Southwest Corner of the Southeast Quarter of Section 21, Township 19 South, Range 1 East, Salt Lake Base and Meridian; thence North 5.20 chains; thence East 10.20 chains; thence South 5.20 chains; thence West 10.20 chains to the point of beginning.

Subject to all restrictions, easements, and rights-of-way of record and current property taxes.

The officers who sign this deed hereby certify that this deed and the transfer represented thereby was duly authorized under a resolution duly adopted by the board of directors of the grantor at a lawful meeting duly held and attended by a quorum.

In witness whereof, the grantor has caused its corporate name and seal to be hereunto affixed by its duly authorized officers this 20th day of January, 1999.

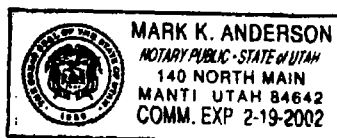
YARDLEY DAIRY, INC.

By: Gene Yardley
GENE YARDLEY, President

STATE OF UTAH)
 : SS
COUNTY OF SANPETE)

On the 20th day of January, A.D. 1999, personally appeared before me **GENE YARDLEY** who being by me duly sworn did say, that **GENE YARDLEY** is the President of **YARDLEY DAIRY, INC.** and that the within and foregoing instrument was approved by the board of directors of said corporation **YARDLEY DAIRY, INC.**, and that said **GENE YARDLEY** duly acknowledged to me that said corporation executed the same.

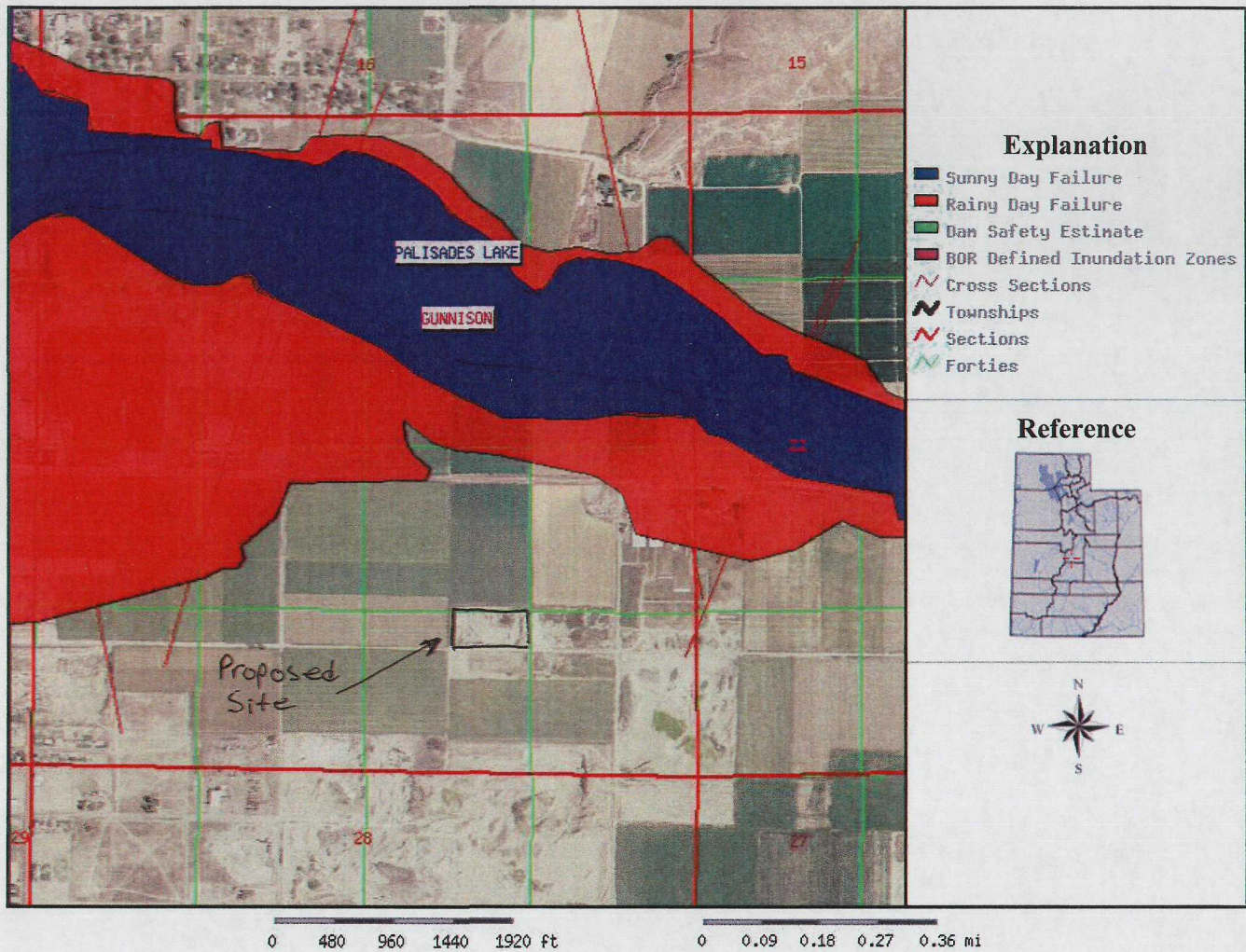
Mark K Anderson
NOTARY PUBLIC

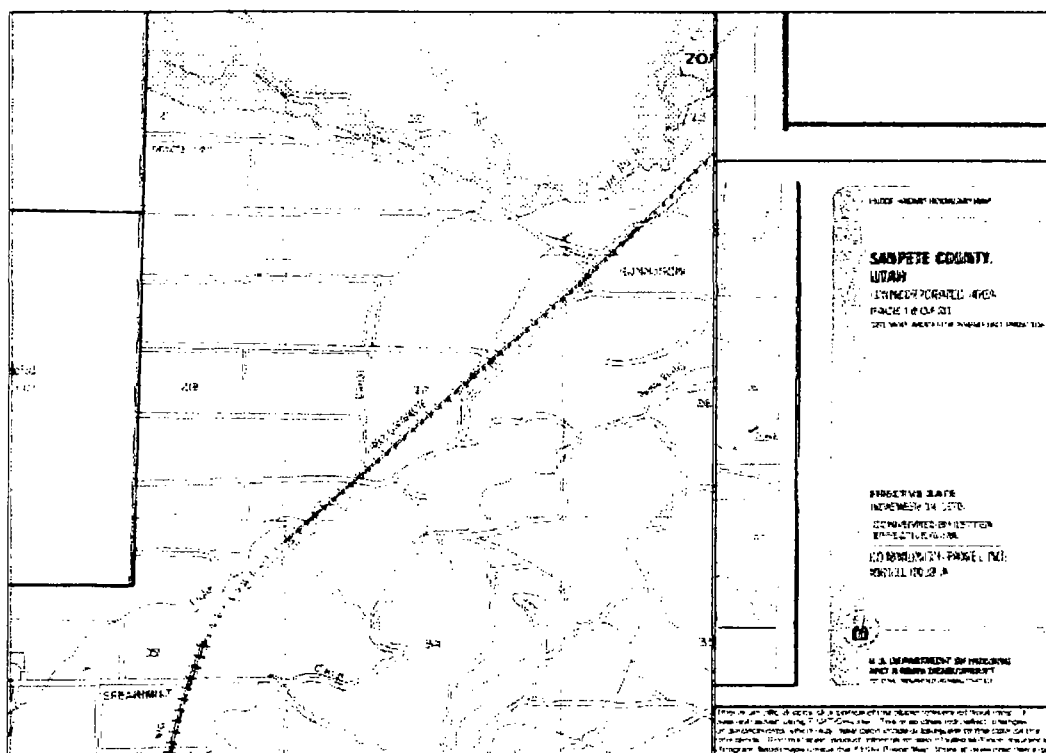


Appendix B

Flood Plains and Inundation Maps

Utah Division of Water Rights







Utah StreamStats

Basin Characteristics Report

Date: Wed Nov 25 2009 10:42:48 Mountain Standard Time

NAD83 Latitude: 39.1478 (39 08 51)

NAD83 Longitude: -111.8092 (-111 48 33)

NAD27 Latitude: 39.1478 (39 08 52)

NAD27 Longitude: -111.8084 (-111 48 30)

Parameter	Value
Mean annual precipitation, in inches	17.9
Average basin slope, in percent	18
Area in square miles	854
Mean basin elevation, in feet	7060
Area Covered by herbaceous upland, in percent	13



Utah StreamStats

Streamstats Ungaged Site Report

Date: Wed Nov 25 2009 16:43:44 Mountain Standard Time

Site Location: Utah

NAD83 Latitude: 39.1478 (39 08 51)

NAD83 Longitude: -111.2862 (-111 48 33)

NAD27 Latitude: 39.1478 (39 08 51)

NAD27 Longitude: -111.2864 (-111 48 36)

Drainage Area: 854 mi²

Peak Flows Region Grid Basin Characteristics			
100% Region 5 (854 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	854 (above max value 629)	0.91	629
Percent Nat Herb Upland from NLCD1992 (percent)	13	2.14	15.6

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Peak Flows Region Grid Streamflow Statistics					
Statistic	Flow (ft ³ /s)	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
				Minimum	Maximum
PK2	1090		1.1		
PK5	1740		3.3		
PK10	2170		6.1		
PK25	2750		8.9		
PK50	3430		9.4		
PK100	3740		8.8		
PK200	4290		8		
PK500	5080		7		

Appendix C

Water Rights and Wells



Search all of Utah.gov »

Utah Division of Water Rights

Output Listing

Version: 2009.05.06.00 Rundate: 11/05/2009 07:26 AM

Radius search of 2500 feet from a point N1320 W1320 from the SE corner, section 21, Township 19S, Range 1E, SL b&m Criteria:wrtypes=W,C,E podtypes=S,U,D,Sp,P,R,T status=U,A,P usetypes=all



0 330 660 990 1320 ft

Water Rights

WR Number	Diversion Type/Location	Well Log	Status	Priority	Uses	CFS	ACFT	Owner Name
63-132	Underground		P	19460131	DS	0.015	0.000	CLAIR YARDLEY

	N1950 W300 SE 21 19S 1E SL				P.O. BOX 839
<u>63-2143</u>	Underground	A		0.000 3.000	COX ROCK PRODUCTS INC. DBA COX INC.
	S700 W3050 NE 28 19S 1E SL				50 E 1 N
<u>63-2228</u>	Underground	A	DIS	0.015 3.000	CLAIR YARDLEY
	N1950 W300 SE 21 19S 1E SL				P.O. BOX 839
<u>63-231</u>	Underground	P	19510807 IS	0.015 0.000	RAY L. HERMANSEN
	N850 W1024 SE 21 19S 1E SL				GUNNISON UT 84634
<u>63-290</u>	Underground	P	19550105 DO	0.015 0.000	RAY L. HERMANSEN
	N2274 W1905 SE 21 19S 1E SL				P.O. BOX 302
<u>a10068</u>	Underground	U	19780216 DS	0.015 0.000	CLAIR YARDLEY
	N1950 W300 SE 21 19S 1E SL				P.O. BOX 839
<u>E1282</u>	Underground	A	19780418 O	0.000 20.000	COX ROCK PRODUCTS INC.
	S700 W3050 NE 28 19S 1E SL				50 EAST 1 NORTH

WELL INSPECTION REPORT

Water Right 23155 Date 3-13-60Owner's Name Ray L. HermansenOwner's Address Gunnison, UtahWell location (from application or claim) N. 50°18' W. 1331 ft. from SE Cor.Sec. 21, T19S, R1E, S1&2M.Ground Water Basin _____ County SANPETE vgNew Well ☒ Repair _____ Clean _____ Deepen _____ Replace _____Diameter of Casing 4" New ☒ Used _____

If "used" casing, was it inspected before being used? _____

Replacement Well

New well is located _____ feet east or west and _____ feet north or south from old well.

Has old well been plugged? _____ By whom? _____

Date plugged _____ Method of plugging _____

Flowing Well

Type of control: Valve () Cap () Other ()

If other than commercial valve or cap, describe the type of control _____

Is the control effective? _____

If not, explain why: _____

Does water leak around casing when control is closed? _____

If so, what is the rate of leakage? _____

Was the well in use at time of inspection? _____

Does the well yield sand? _____ Are there signs of caving? _____

Non-Flowing Well

Was well equipped with pump at time of inspection? YES

Does well pump sand? _____ Are there signs of caving? _____

Comments Drilled by VERNON DIMICK in 1951well is 125' deep

Nature of Use

Domestic _____ Stock ☒ Irrigation _____ Municipal _____ Mining _____ Other _____

If "other" describe use _____

Rate of Diversion

Estimate 13 L.P.M. Measured _____ Method of Measurement: _____

Tag placed on well _____ Tag already on well _____ Tag needs to be prepared _____

Tag will be Placed on well.Inspection made by John Jensen

WELL INSPECTION REPORT

Water Right A-17225 Date 4-15-60Owner's Name N. L. HermansenOwner's Address Gunnison, UtahWell location (from application or claim) N. 815 ft. & W. 1650 ft. from the SE Cor.
of Sec. 22, T19S, R1E, S1B&M.Ground Water Basin _____ County SANPETE VE

New well _____ Repair _____ Clean _____ Deepen _____ Replace _____

Diameter of Casing 4" New _____ Used _____

If "used" casing, was it inspected before being used? _____

Replacement Well

New well is located _____ feet east or west and _____ feet north or south from old well.

Has old well been plugged? _____ By whom? _____

Date plugged _____ Method of plugging _____

Flowing Well

Type of control: Valve () Cap () Other ()
If other than commercial valve or cap, describe the type of control _____

Is the control effective? _____

If not, explain why: _____

Does water leak around casing when control is closed? _____

If so, what is the rate of leakage? _____

Was the well in use at time of inspection? _____

Does the well yield sand? _____ Are there signs of caving? _____

Non-Flowing Well

Was well equipped with pump at time of inspection? YesDoes well pump sand? No Are there signs of caving? NoComments This well is 102' deep, drilled by VERNER DUDLEY
in 1946 water stands at 20' Has a 40' draw down

Nature of Use

Domestic _____ Stock X Irrigation _____ Municipal _____ Mining _____ Other _____

If "other" describe use _____

Rate of Diversion

Estimate 4 G.P.M. Measured _____ Method of Measurement: _____Tag placed on well _____ Tag already on well yes Tag needs to be prepared _____

Comments _____

Inspection made by [Signature]

Appendix D

Record Keeping Forms

Madsen Landfill Load Ticket

Date _____ Waste Type _____
Origination _____
Gross Weight _____
Tare Weight _____
Net Weight _____ OR Volume _____
Inspected ? Y N
Results of Inspection _____
Operator Signature _____

Madsen Landfill Load Ticket

Date _____ Waste Type _____
Origination _____
Gross Weight _____
Tare Weight _____
Net Weight _____ OR Volume _____
Inspected ? Y N
Results of Inspection _____
Operator Signature _____

Madsen Landfill Load Ticket

Date _____ Waste Type _____
Origination _____
Gross Weight _____
Tare Weight _____
Net Weight _____ OR Volume _____
Inspected ? Y N
Results of Inspection _____
Operator Signature _____

Madsen Landfill
Waste Inspection Report

Operator _____ Date _____
Waste Type _____
Origination _____
Company _____ Driver _____
Vehicle Type _____
Net Weight _____ OR Volume _____

.....

Inspection Results:

Operator Signature

Date _____

Madsen Landfill
General Inspection Report

Inspector _____

Date _____

Inspection Type _____

Equipment Used _____

Inspection Results:

Comments:

Inspectors Signature

Date

Madsen Landfill
Daily Operating Record

Date _____

Operator _____

		Total Weight	OR	Total Volume
No. Semi Trucks				
No. Large Trucks				
No. Pickups				

Date _____

Operator _____

		Total Weight	OR	Total Volume
No. Semi Trucks				
No. Large Trucks				
No. Pickups				

Date _____

Operator _____

		Total Weight	OR	Total Volume
No. Semi Trucks				
No. Large Trucks				
No. Pickups				

Date _____

Operator _____

		Total Weight	OR	Total Volume
No. Semi Trucks				
No. Large Trucks				
No. Pickups				

Appendix E

Endangered Species and Cultural Resources Report

EIS Environmental & Engineering Consulting

31 North Main Street * Helper, Utah 84526

Office -- (435) 472-3814 * Toll free -- (800) 641-2927 * Fax -- (435) 472-8780
eisec@preciscom.net

August 3, 2009

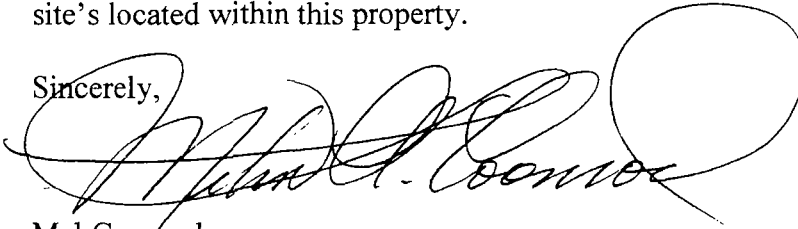
Madson Construction Property

Dear Mr. Madson:

Personal from my firm and I walked the property located in the S.E. ¼ section 21, T 19 S R1E, S1BM; The "Gravel Pit". All of the land is recently disturbed, and is currently an active barrow area. As such no cultural sites can possibly be present; to invest in any further surveys' is not only not warranted but is a total waste of both time and resources.

I personally will attest; having walked and surveyed the entire site; there are no culture site's located within this property.

Sincerely,



Mel Cooprod
EIS / Owner

DAVID MADSON CONSTRUCTION PROPERTY

THREATENED, ENDANGERED, CANDIDATE, AND SENSITIVE SPECIES
INVENTORY

CONDUCTED

July 29, 2009

By,

EIS Environmental and Engineering Consulting

31 North Main Street * Helper, Utah 84526

Office - (435) 472-3814 * Toll free - (800) 641-2927 * Fax - (435) 472-8780

eisec@preciscom.net

David Madson Construction Property Threatened, Endangered, and Sensitive Species

Introduction

David Madson has contracted Environmental Industrial Services to conduct a threatened, endangered, and sensitive species (TES) inventory for private property owned by David Madson Construction. The project area is located near Gunnison in Sanpete County, Utah in the southeast quarter of section 21, Township 19 South, Range 1 East, SLBM. The property has been developed as a gravel quarry and construction materials have been stored within the remaining pit. This TES inventory is intended to fill the requirements for a Utah Class IV and VI Landfill Application (R315-305-4(1)(a)). US Fish and Wildlife Service (USFWS), and the Bureau of Land Management (BLM) have created a list of sensitive species that are present or may be present in Sanpete County, Utah (Table 1). The area of concern was examined by an EIS biologist and field technician for the existence of these species. The survey covered the existing pit and immediate surrounding area.

Methodology

On July 29, 2009, a walkover of the property was completed. Surveyors walked around the pit within the fenced property boundary. The surveyors did not enter the pit due to earthmoving activities. Plant communities were observed as well as any animal signs or sightings. Topography and weather conditions were also noted.

If any species of concern were discovered, a GPS location would be recorded. Photographs of habitat and the specimen would also be taken.

Habitat Description

The surveyed property lies on surficial alluvium and colluvium. The property is approximately 5,120 feet in elevation and is surrounded by agricultural land. The soil has been recently disturbed by gravel harvesting activities within the last 3 years. Over 90 percent of the area is bare ground. Vegetation found within the property consists mostly of annual weeds. Vegetation consists of *Kochia scoparia*, *Bromus tectorum*, *Agropyron chrisatum*, *Hordeum jubatum*, mustard species and *Sanleya pinnata*.

Species Description

In addition to federally listed TES species, the BLM has assembled a list of sensitive species that are of concern or under special management under a conservation agreement. These species occur or possibly occur in Sanpete County, Utah. Based on the findings of the survey crew and the TES species description, the possibility of each species being found in the property area can be determined.

Table 1: Federally Listed and BLM Sensitive Species

Scientific Name	Common Name	Status
<i>Astragalus montii</i>	Heliotrope Milkvetch	S
<i>Phacelia utahensis</i>	Utah Phacelia	T

S – BLM Sensitive T – Federally Listed Threatened

Astragalus montii, Heliotrope Milkvetch, is found in openings of spruce-fir forests between 11,000 and 11,300 feet in elevation. It survives on plateau margins on Flagstaff Limestone and blooms during July and August.

Phacelia utahensis, Utah Phacelia, is found in salt desert shrub communities between 5,500 and 6,200 feet in elevation. It survives on clay hills and banks on the Arapien Shale Formation. It blooms from April to June.

Results

Astragalus montii is found at elevations significantly higher than the property area. The project area is not on Flagstaff Limestone. No habitat is present within the property area. No specimens were found during the survey.

Phacelia utahensis is found in slightly higher elevations than the property area. The property is not on the Arapien Shale Formation. Habitat for this species is not present in the property. No specimens were found during the survey.

Conclusion

Suitable habitat for the USFWS, BLM and Utah State listed special status species is not present within the property boundary based on species descriptions and negative findings during the survey. The majority of the property has been recently disturbed and there is no likelihood of finding TES species within the property.

References

Atwood, D., J. Holland, R. Bolander, B. Franklin, D.E. House, L. Armstrong, K. Thorne and L. England. 1991. *Utah Endangered, Threatened, and Sensitive Plant Field Guide*. USDA Forest Service Intermountain Region, Ogden, Utah.

Utah Division of Wildlife Resources. 1998. *Inventory of sensitive species and ecosystems in Utah*.

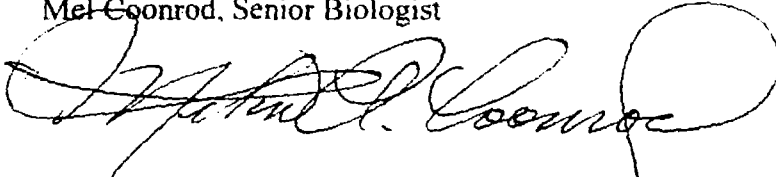
Utah Division of Wildlife Resource, Utah Conservation Data Center. 2 Jul 2008.
<http://dwrcdc.nr.utah.gov/ucdc>

Utah Geological Survey. 7 Jul 2008. <http://geology.utah.gov/maps/gis/index.htm>

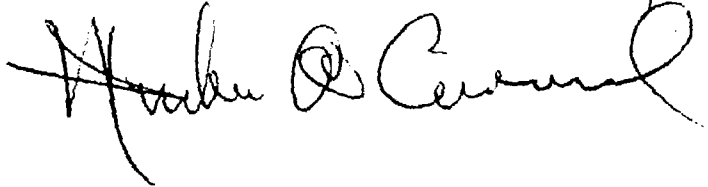
EIS Survey Team

The staff involved with this survey confirm its completion and the concur with results and conclusions stated in this document.

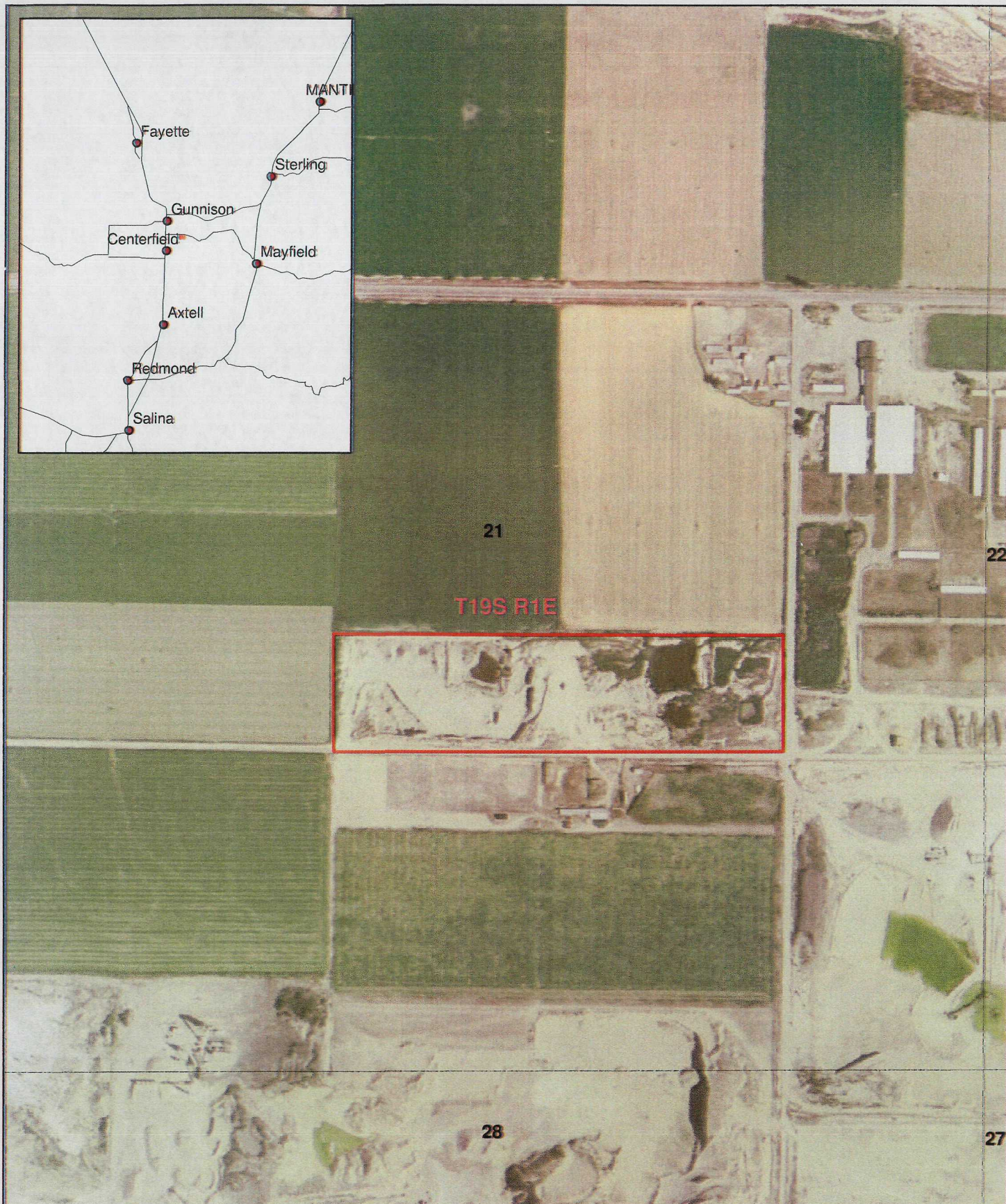
Mel Coonrod, Senior Biologist

A handwritten signature in black ink, appearing to read "Mel Coonrod", with a large, looping flourish at the end.

Michael Coonrod, Field Technician


A handwritten signature in black ink, appearing to read "Michael Coonrod", with a large, looping flourish at the end.

Attachment 1
Area Map



Environmental
Industrial
Services
Environmental Engineering
& Consulting

31 North Main Street
Helper, Utah 84526
(435) 472-3814
fax (435) 472-8780
eisecc@preciscom.net

 Survey Boundary

Feet
0 400 800



**Madson Construcion Property
Threatened, Endangered,
and Sensitive Species**

Conducted July 29, 2009

Attachment 2
Site Photographs

David Madson Construction Property
Threatened, Endangered, and Sensitive Species



Photo 1

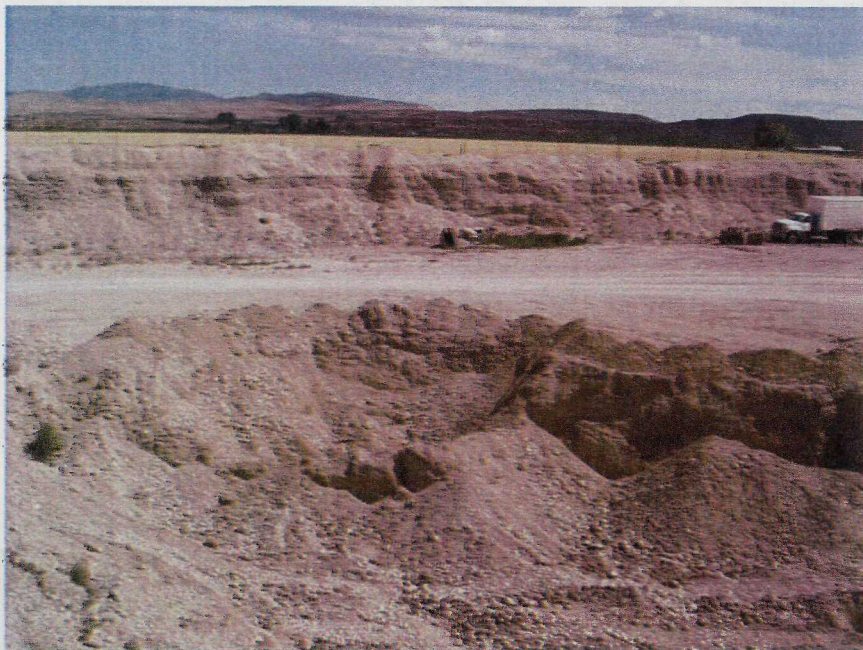


Photo 2



Photo 3



Photo 4



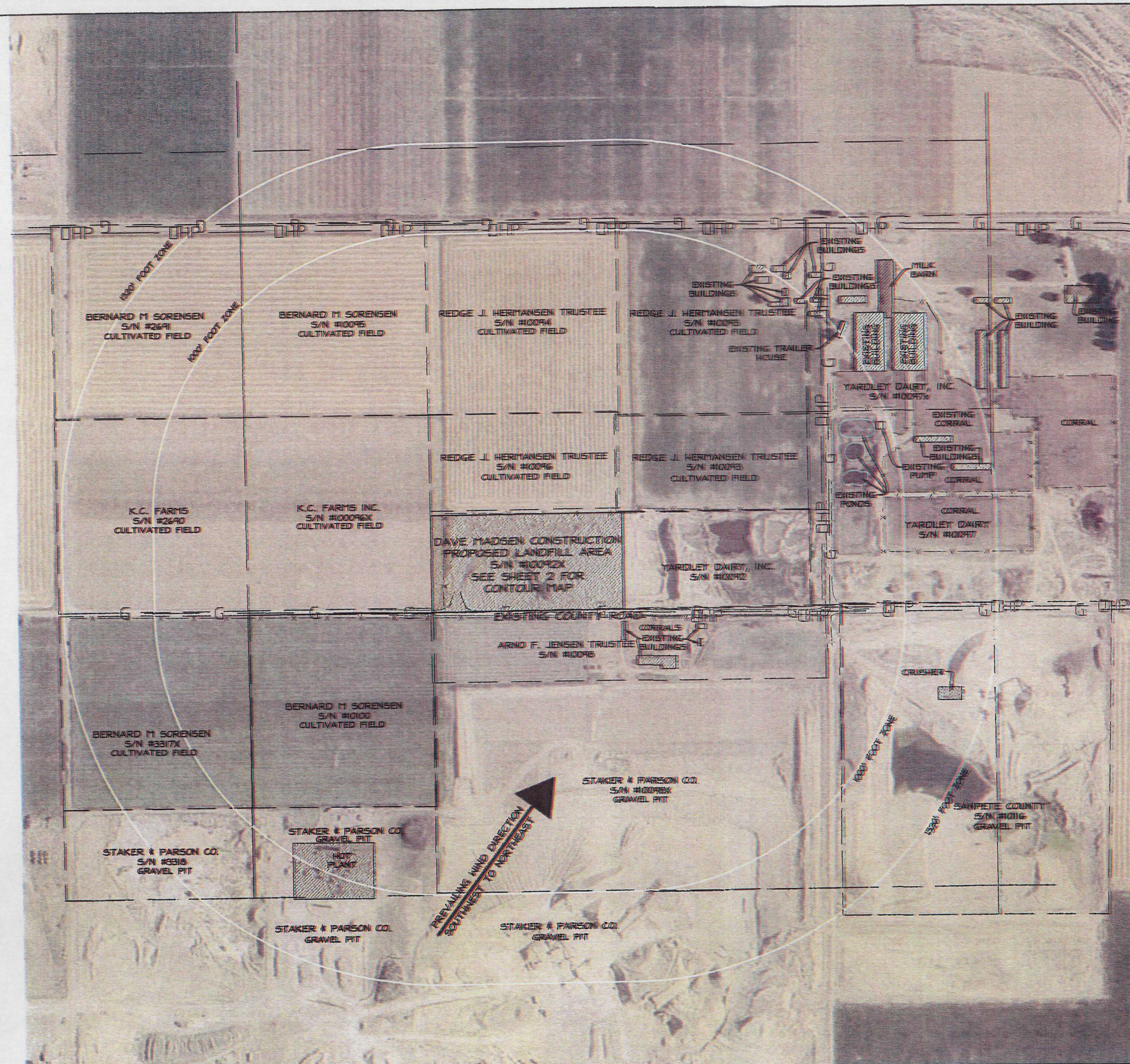
Photo 5



Photo 6
Off Property
Settlement Pond For Adjacent Dairy

Appendix F

Maps, Cell and Cover Design

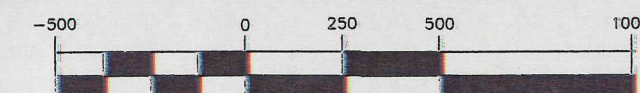


1000 FOOT ZONE	
RESIDENCES	1
PARKS	0
MONUMENTS	0
RECREATION	0
WILDERNESS	0
HISTORICAL STRUCTURES	0
OTHER STRUCTURES	13

1320 FOOT ZONE	
RESIDENCES	1
PARKS	0
MONUMENTS	0
RECREATION	0
WILDERNESS	0
HISTORICAL STRUCTURES	0
OTHER STRUCTURES	24

SEE SHEET 2 OF 3 FOR 7.5' QUAD MAP
SEE SHEET 3 OF 3 FOR LANDFILL TOPO

GRAPHIC SCALE



(IN FEET)

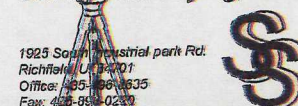
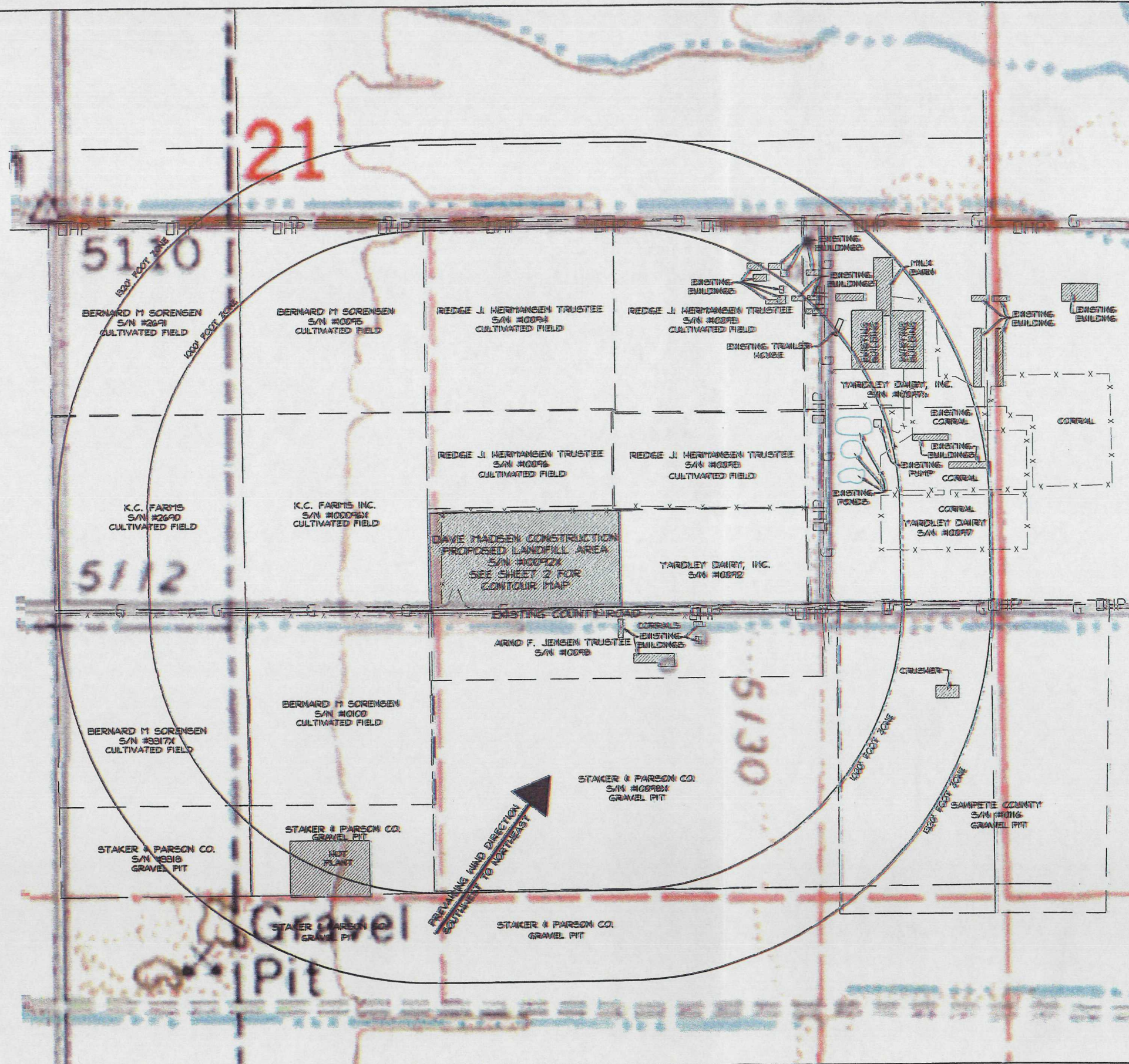


EXHIBIT MAP FOR
DAVE MADSEN LANDFILL

ENGINEER T.M.	SCALE 1"=50'	SHEET NO. 1 OF 3
CHECKED RWS	PROJ# 0907-016S DWG.NM: 0907-016S	
DRAWN ASA	DATE 01/28/2010	

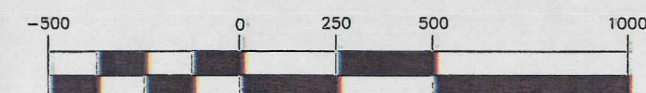


1000 FOOT ZONE	
RESIDENCES	1
PARKS	0
MONUMENTS	0
RECREATION	0
WILDERNESS	0
HISTORICAL STRUCTURES	0
OTHER STRUCTURES	13

1320 FOOT ZONE	
RESIDENCES	1
PARKS	0
MONUMENTS	0
RECREATION	0
WILDERNESS	0
HISTORICAL STRUCTURES	0
OTHER STRUCTURES	24

SEE SHEET 1 OF 3 FOR AERIAL PHOTO
SEE SHEET 3 OF 3 FOR LANDFILL TOPO

GRAPHIC SCALE



(IN FEET)

1 inch = 500 ft.

Savage Surveying, Inc.

1925 South Industrial Park Rd.
Richfield, UT 84701
Office: 801-866-1635
Fax: 801-866-0289



EXHIBIT MAP FOR DAVE MADSEN LANDFILL

ENGINEER T.M.	SCALE 1"=500'	SHEET NO. 2 OF 3
CHECKED R.W.S.	PROJ# 0907-016S DWG.# 0907-016S	
DRAWN A.S.A.	DATE 01/29/2010	

REDGE J. HERMANSEN TRUSTEE
S/N #10096

REDGE J. HERMANSEN TRUSTEE
S/N #10093

K.C. FARMS, INC.
S/N #10096X

YARDLEY DAIRY, INC.
S/N #10092

TOTAL SITE ACREAGE = 5.30 ACRES

COUNTY ROAD

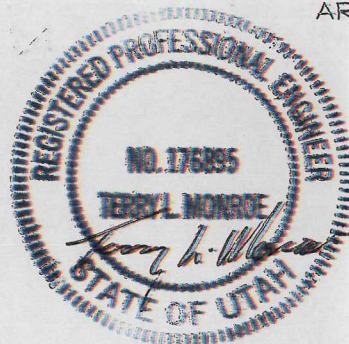
ARNO F. JENSEN TRUSTEE
S/N #10098

ESTIMATED EARTH WORK QUANTITIES

CUT = 327 CU. YDS.
FILL = 96,393 CU. YDS.
NET (FILL) = 96,066 CU. YDS.

CUT AND FILL VOLUMES SHOWN ARE BASED ON DIGITAL TERRAIN MODELING COMPUTATIONS. VOLUMES SHOWN ARE COMPACTED IN PLACE VOLUMES AND DO NOT REFLECT EXPANSION AND SHRINKAGE CONDITIONS EXPERIENCED DURING CONSTRUCTION. THESE VOLUMES ARE SHOWN AS REFERENCE ONLY.

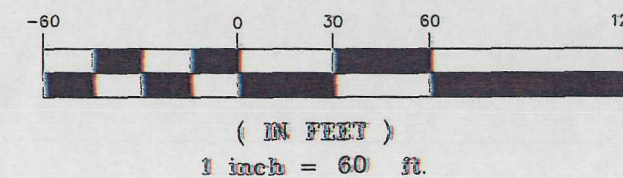
THESE VOLUMES ARE GENERATED TO THE FINISHED GRADE OF THE SITE.



LEGEND:

-----5100----- EXISTING MAJOR CONTOUR
-----5100----- EXISTING MINOR CONTOUR
———5100——— PROPOSED MAJOR CONTOUR
———5100——— PROPOSED MINOR CONTOUR
————— PROPERTY LINE
— X — X — EXISTING FENCE LINES

GRAPHIC SCALE



SEE SHEET 1 OF 3 FOR AERIAL PHOTO
SEE SHEET 2 OF 3 FOR 7.5' QUAD MAP

Savage Surveying, Inc.

1925 South Industrial Park Rd.
Richfield, UT 84701
Office: 801-866-1635
Fax: 801-866-0200



LANDFILL TOPO EXHIBIT
DAVE MADSEN

ENGINEER T.M.	SCALE 1"=60'
CHECKED R.W.S.	PROJ.# 0907-016S DWG.NM: 0907-016S
DRAWN A.S.A.	DATE 01/28/2010

SHEET NO.

3 OF 3

Appendix G

Letter of Credit



GUNNISON VALLEY BANK
10 South Main • P.O. Box 220
Gunnison, Utah 84634

December 7, 2009

IRREVOCABLE LETTER OF CREDIT

STATE OF UTAH SOLID WASTE

Gentlemen:

We hereby open our Irrevocable Letter of Credit in your favor for the account of Madsen Construction in connection with their solid waste facility in Sanpete County, Utah for a sum not to exceed Sixty Thousand Dollars (\$60,000.00) available by your one or more clean drafts at sight on us.

Each draft so drawn must be marked "Drawn under Gunnison Valley Bank Letter of Credit with Madsen Construction" and be accompanied by a signed statement of default from STATE OF UTAH SOLID WASTE..

This letter will expire on December 7, 2010.

Sincerely,

A handwritten signature in dark ink, appearing to read "Paul Andersen", is written over a horizontal line.

Paul Andersen
President

Appendix H

Adjacent Landowners and Notice of Intent

7009 1410 0000 8557 7145

U.S. Postal ServiceTM
CERTIFIED MAILTM RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com.

OFFICIAL USE

Postage	\$ \$0.44	0701 02 Postmark Here
Certified Fee	\$2.80	
Return Receipt Fee (Endorsement Required)	\$1.10	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ \$4.34	

01/15/2010

Sent To Cox Rock Products
 Street, Apt. No., or PO Box No. PO Box 289
 City, State, ZIP+4 Centerfield UT 84622

PS Form 3800, August 2006 See Reverse for Instructions

7009 1410 0000 8557 7169

U.S. Postal ServiceTM
CERTIFIED MAILTM RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com.

OFFICIAL USE

Postage	\$ \$0.44	0701 02 Postmark Here
Certified Fee	\$2.80	
Return Receipt Fee (Endorsement Required)	\$1.10	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ \$4.34	

01/15/2010

Sent To KC Farms, Inc
 Street, Apt. No., or PO Box No. PO Box 455
 City, State, ZIP+4 Gunnison, UT 84634

PS Form 3800, August 2006 See Reverse for Instructions

7009 1410 0000 8557 7138

U.S. Postal ServiceTM
CERTIFIED MAILTM RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com.

OFFICIAL USE

Postage	\$ \$0.44	0701 02 Postmark Here
Certified Fee	\$2.80	
Return Receipt Fee (Endorsement Required)	\$1.10	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ \$4.34	

01/15/2010

Sent To Rodger J. Hermanson
 Street, Apt. No., or PO Box No. PO Box
 City, State, ZIP+4 Gunnison, UT 84634

PS Form 3800, August 2006 See Reverse for Instructions

7009 1410 0000 8557 7121

U.S. Postal ServiceTM
CERTIFIED MAILTM RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com.

OFFICIAL USE

Postage	\$ \$0.44	0701 02 Postmark Here
Certified Fee	\$2.80	
Return Receipt Fee (Endorsement Required)	\$1.10	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ \$4.34	

01/15/2010

Sent To Sanpete County
 Street, Apt. No., or PO Box No. 160 North Main
 City, State, ZIP+4 Manti, UT 84642

PS Form 3800, August 2006 See Reverse for Instructions

7009 1410 0000 8557 7152

U.S. Postal ServiceTM
CERTIFIED MAILTM RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com.

OFFICIAL USE

Postage	\$ \$0.44	0701 02 Postmark Here
Certified Fee	\$2.80	
Return Receipt Fee (Endorsement Required)	\$1.10	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ \$4.34	

01/15/2010

Sent To Yardley Dairy, Inc.
 Street, Apt. No., or PO Box No. PO Box 909
 City, State, ZIP+4 Gunnison, UT 84634

PS Form 3800, August 2006 See Reverse for Instructions

7009 1410 0000 8557 7176

U.S. Postal ServiceTM
CERTIFIED MAILTM RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com.

OFFICIAL USE

Postage	\$ \$0.44	0701 02 Postmark Here
Certified Fee	\$2.80	
Return Receipt Fee (Endorsement Required)	\$1.10	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ \$4.34	

01/15/2010

Sent To Bernard M. Sorensen
 Street, Apt. No., or PO Box No. PO Box 136
 City, State, ZIP+4 Gunnison, UT 84634

PS Form 3800, August 2006 See Reverse for Instructions

Date

Address

RE: Notice of Intent to apply for a Class IVb Solid Waste Landfill Permit

Dear Sir:

Administrative Rule R315-310-3(2)(ii) requires that a notice of intent to apply for a solid waste landfill permit be sent to all property owners within 1000 feet of a proposed facility.

This letter serves as notice that David Madsen intends to apply to the Department of Environmental Quality, Division of Solid and Hazardous Waste for a Type IVb Solid Waste Landfill permit. Mr. Madsen's intent is to be permitted to dispose of construction debris, yard waste and inert waste within an abandoned gravel pit he owns located in the SW1/4SE1/4 of Section 21, T19S, R1E, SLB&M (approximately 1 mile east of Gunnison). Search of the Sanpete County Recorder Office records show that you own property within 1000 feet of the proposed site.

Questions regarding this notice of intent should be directed to:

Savage Surveying Inc.
c/o Ryan Savage
1925 South Industrial Park Road
Richfield, Utah 84701
Phone: 435-896-8635

Sincerely,